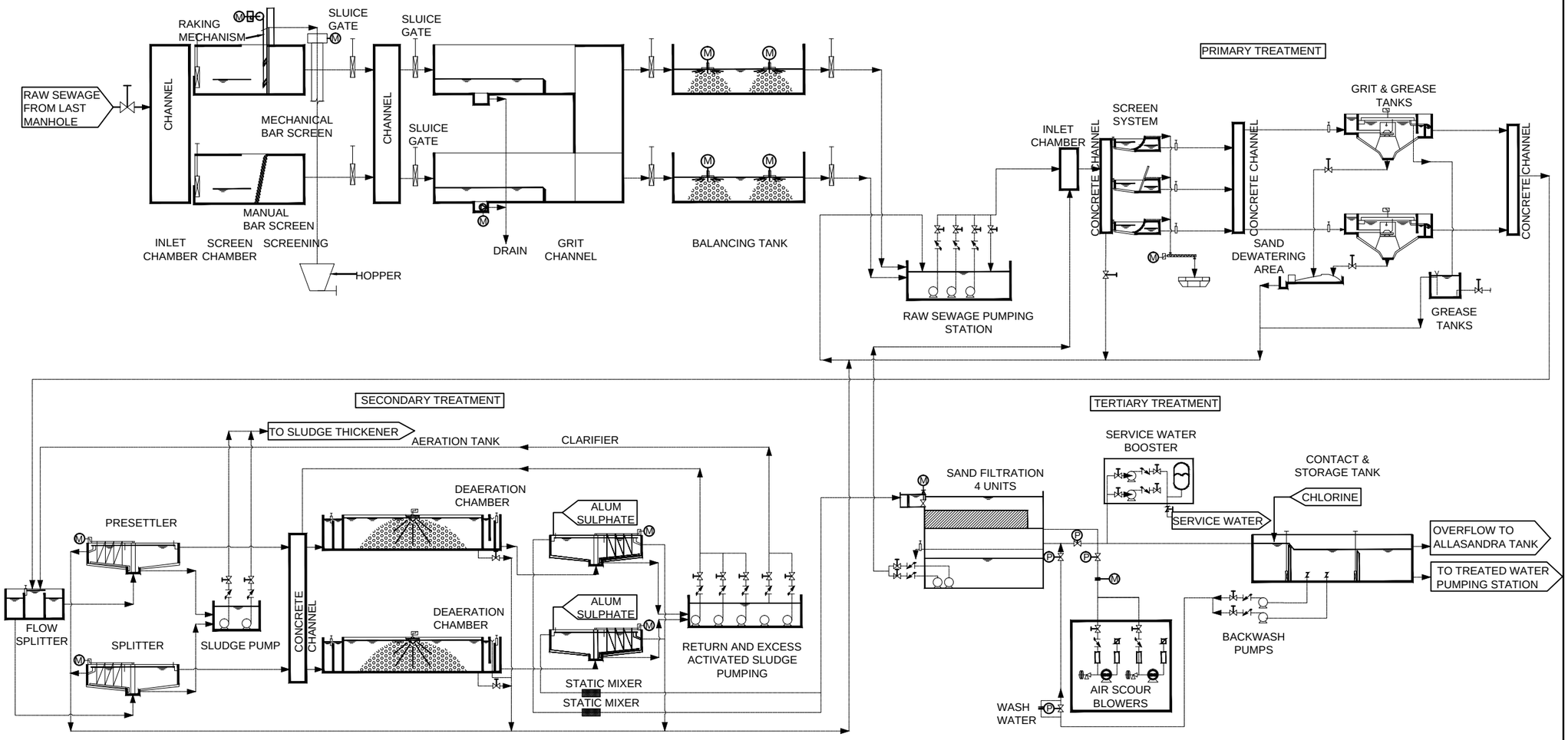

Rev. No.	Date	Description	Drawn By	Designed By	Approved By
R 0	17-12-22	Submition with DPR	AK	SS	PG

Name of Project :

Rehabilitation of Yelahanka Town 10 MLD Waste Water Treatment Plant

Client :

Bangaluru Water Supply & Sewerage Board

Consultant :

NJS
NJS Engineers India Pvt. Ltd.
206, 2nd Floor, 12 Gagandeep Building,
Rajendra Place, New Delhi – 110 008
E-Mail : delhioffice@njsei.com

Drawing Name :

Existing Process Flow Diagram for 10 MLD Yelahanka TTP, Bangaluru

Drawing No. :

BWSB/YEH/DPR/P/01

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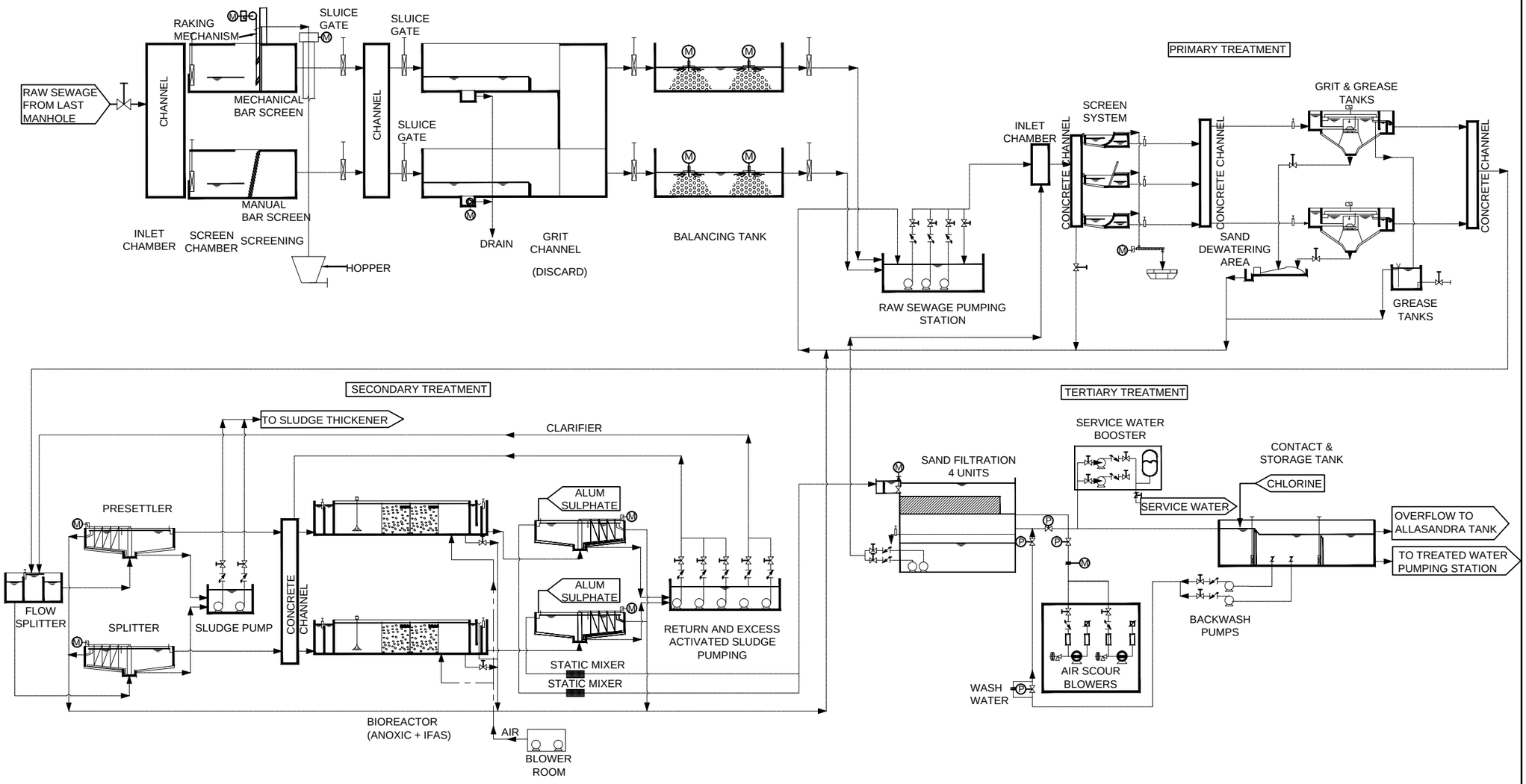

Rev. No.	Date	Description	Drawn By	Designed By	Approved By
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Name of Project :

Rehabilitation of Yelahanka Town 10 MLD Waste Water Treatment Plant

Client :

Banglore Water Supply & Sewerage Board

Consultant :

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NJS Engineers India Pvt. Ltd.
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Rajendra Place, New Delhi – 110 008
E-Mail : delhioffice@njsei.com

Drawing Name :

Proposed Process Flow Diagram for 10 MLD Yelahanka TTP, Bangaluru

Drawing No. :

BWSB/YEH/DPR/P/02

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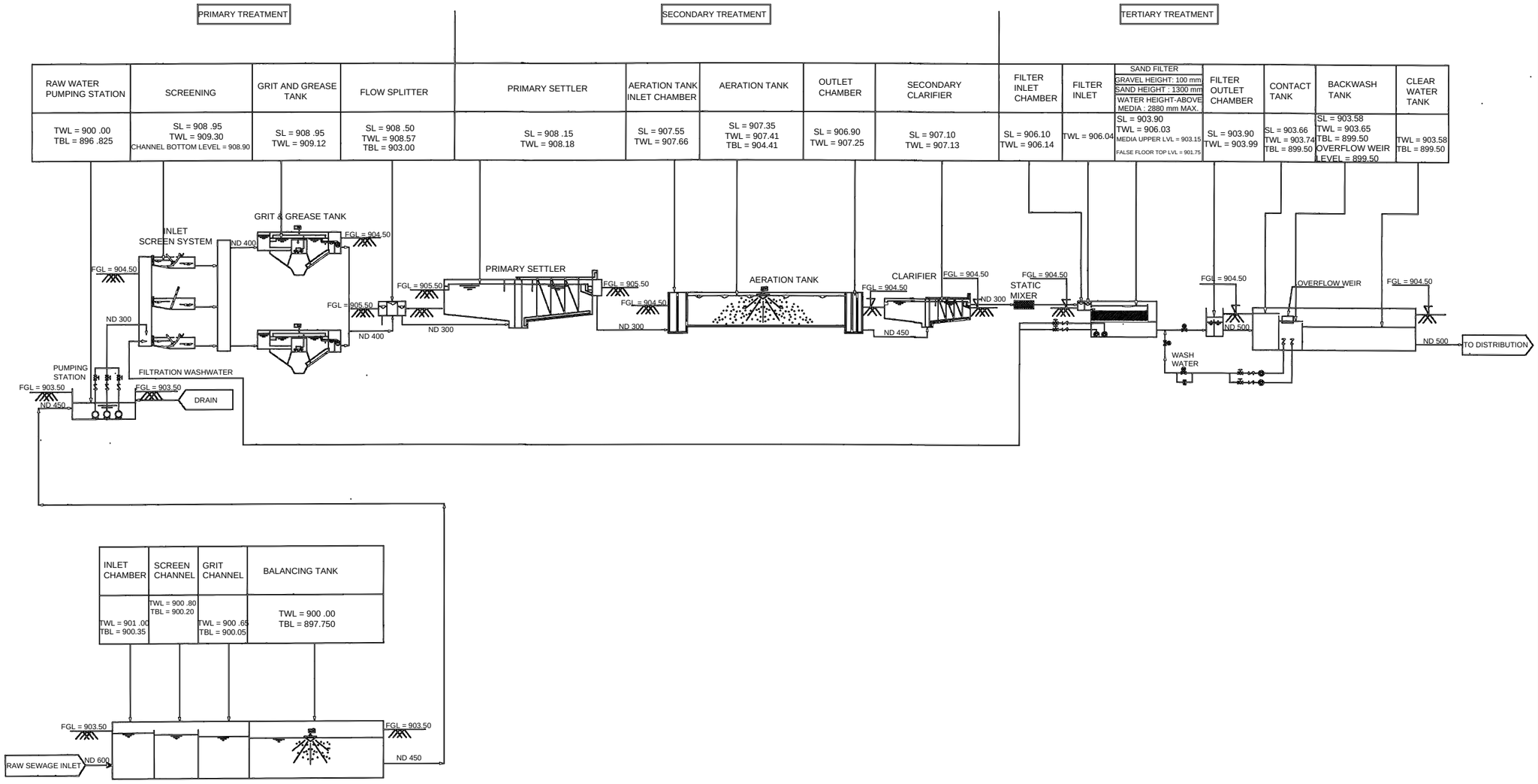
NTS	1 of 1	A3	R0



LEGEND

TWL = TOP WATER LEVEL
SL = STATIC LEVEL
TBL = TANK BOTTOM LEVEL
FGL = FINISHED GROUND LEVEL

PEAK FLOW CONSIDERED :

- INLET CHAMBER, SCREEN CHAMBER,GRIT CHANNEL & BALANCING TANK
  938 m³/h
- ALL OTHERS UNITS
  450 m³/h

OPERATING CONDITIONS CONSIDERED :

- 2 SCREENS OUT OF SERVICE
- 1 GRIT & GREASE TANK OUT OF SERVICES
- 1 FILTER BEING BACKWASHED
- NO SLUDGE EXTRACTION
- NOMINAL SLUDGE RECIRCULATION

NOTE :

ALL LEVELS ARE IN METERS AND PIPE DIAMETERS ARE IN MILLIMETERS

Rev. No.	Date	Description	Drawn By	Designed By	Approved By
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Rehabilitation of Yelahanka Town 10 MLD Waste Water Treatment Plant

Client :

Bangaluru Water Supply & Sewerage Board

Consultant : NJS
NJS Engineers India Pvt. Ltd.
206, 2nd Floor, 12 Gagandeep Building,
Rajendra Place, New Delhi – 110 008
E-Mail : delhioffice@njsei.com

Drawing Name :

Existing Hydrolic Flow Diagram for 10 MLD Yelahanka TTP, Bangaluru

Drawing No. :

BWSB/YEH/DPR/P/03

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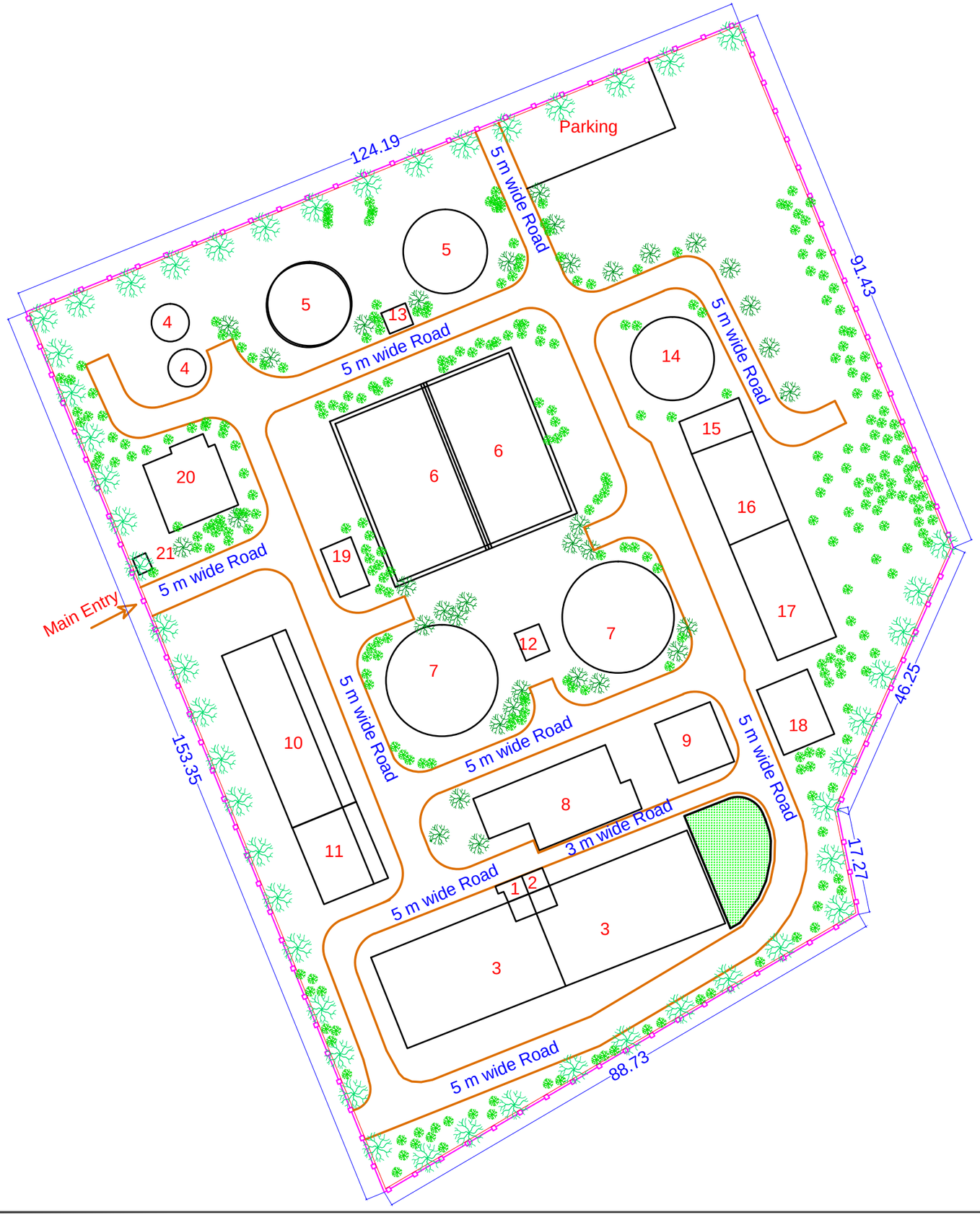

LIST OF EXISTING UNITS

Sr No	NAME OF UNITS	NO.OF UNITS	SIZES		
			Length/ Dia	B	SWD
1	SCREEN S CHANNEL	2.0	-	-	-
2	RAW WATER PUMPING STATION	1.0	6.0	4.5	-
3	BALANCING TANK	2.0	26.0	16.0	-
4	PRETREATMENTS (INCLUDING INLET CHAMBER, FINE SCREEN,GRIT & GREASE REMOVAL UNITS)	2.0	6.0	-	-
5	PRIMARY SETTLER	2.0	13.85	-	3.0
6	AERATION TANK	2.0	15.0	30.0	2.85
7	SECONDARY CLARIFIER	2.0	17.0	-	3.0
8	FILTER	4.0	2.4	4.5	-
9	CHLORINATION SYSTEM	1.0	10.0	10.0	-
10	CHLORINE CONTACT TANK & TREATED WATER STORAGE TANK	1.0	11.0	30.0	4.24
11	BACKWASH WATER PUMPING STATION	1.0	11.0	13.65	-
12	SLUDGE RECIRCULATION	1.0	4.0	4.5	-
13	SLUDGE EXTRACTION TANK	1.0	4.0	4.5	-
14	SLUDGE THICKENER	1.0	13.5	-	4.0
15	CHEMICAL BUILDING	1.0	10.2	21.2	-
16	SLUDGE TREATMENT BUILDING	1.0	10.2	21.55	-
17	SLUDGE STORAGE AREA	1.0	8.80	11.35	-
18	GENSET BUILDING	1.0	9.6	8.75	-
19	ELECTRICAL BUILDING	1.0	4.0	7.0	-
20	ADMINISTRATION BUILDING	1.0	12.0	13.85	-
21	GUARD ROOM	1.0	1.5	1.5	-

N

LEGEND:

Existing STP Boundary

Existing Units

Internal Road

Rev. No.	Date	Description	Drawn By	Designed By	Approved By
	08-12-22	xx	KS	SS	PG

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Client :

Bangalore Water Supply & Sewerage Board

Consultant :

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Drawing Name :

Existing Plant Layout for 10 MLD Yelahanka TTP, Bangalore

Drawing No. :

BWSB/YEH/DPR/G/01

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NTS	1 of 1	A3	R0

LIST OF EXISTING UNITS

Sr No	NAME OF UNITS	NO.OF UNITS	SIZES		
			Length/ Dia	B	SWD
1	SCREEN S CHANNEL	2.0	-	-	-
2	RAW WATER PUMPING STATION	1.0	6.0	4.5	-
3	BALANCING TANK	2.0	26.0	16.0	-
4	PRETREATMENTS (INCLUDING INLET CHAMBER, FINE SCREEN,GRIT & GREASE REMOVAL UNITS)	2.0	6.0	-	-
5	PRIMARY SETTLER	2.0	13.85	-	3.0
6	IFAS TANK	2.0	15.0	30.0	2.85
7	SECONDARY CLARIFIER	2.0	17.0	-	3.0
8	FILTER	4.0	2.4	4.5	-
9	CHLORINATION SYSTEM	1.0	10.0	10.0	-
10	CHLORINE CONTACT TANK & TREATED WATER STORAGE TANK	1.0	11.0	30.0	4.24
11	BACKWASH WATER PUMPING STATION	1.0	11.0	13.65	-
12	SLUDGE RECIRCULATION	1.0	4.0	4.5	-
13	SLUDGE EXTRACTION TANK	1.0	4.0	4.5	-
14	SLUDGE THICKENER	1.0	13.5	-	4.0
15	CHEMICAL BUILDING	1.0	10.2	21.2	-
16	SLUDGE TREATMENT BUILDING	1.0	10.2	21.55	-
17	SLUDGE STORAGE AREA	1.0	8.80	11.35	-
18	GENSET BUILDING	1.0	9.6	8.75	-
19	ELECTRICAL BUILDING	1.0	4.0	7.0	-
20	ADMINISTRATION BUILDING	1.0	12.0	13.85	-
21	GUARD ROOM	1.0	1.5	1.5	-

LIST OF PROPOSED UNITS

N1	BLOWER ROOM	(G+1)	12.0 6.0	8.0 8.0	-

N

LEGEND:

- Existing STP Boundary
- Existing Units
- Internal Road
- Proposed Units

Rev. No.	Date	Description	Drawn By	Designed By	Approved By
	08-12-22	xx	KS	SS	PG

Name of Project :

Rehabilitation of Yelahanka Town 10 MLD Waste Water Treatment Plant

Client :

Bangalore Water Supply & Sewerage Board

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206, 2nd Floor, 12 Gagandeep Building,
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Proposed Plant Layout for 10 MLD Yelahanka TTP, Bangalore

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